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CONFIRMATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE 11301-1480 1170 09/242.525 02/17/1999 SHINICHI SATO EXAMINER 7590 06/28/2004 SERGENT, RABON A **GEORGE M THOMAS** THOMAS KAYDEN HORSTEMEYER & RISLEY PAPER NUMBER ART UNIT 100 GALLERIA PARKWAY NW 1711 **SUITE 1500** ATLANTA, GA 303395948

DATE MAILED: 06/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application	No.	Applicant(s)	9	
	09/242,525		SATO ET AL.	/	
	Examiner		Art Unit		
	Rabon Serg		1711		
The MAILING DATE of this communication app Period for Reply	pears on the c	over sheet with the c	orrespondence addre	ess	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event ly within the statuto will apply and will e e. cause the applica	, however, may a reply be timery minimum of thirty (30) days to spire SIX (6) MONTHS from tition to become ABANDONE!	nely filed s will be considered timely. the mailing date of this comm D (35 U.S.C. § 133).	nunication.	
Status				•	
1) Responsive to communication(s) filed on 15 A					
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3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under a	Ex parte Qua	//e, 1935 C.D. 11, 40	03 O.G. 213.		
Disposition of Claims					
4) Claim(s) 46,48 and 63 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 46,48 and 63 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from cons				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) cepted or b) cepted or b) cepted or be cepted or b) cepte	held in abeyance. See I if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR		
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority document</li> <li>application from the International Bureat</li> <li>* See the attached detailed Office action for a list</li> </ul>	nts have been nts have been ority documer au (PCT Rule	received. received in Applicati its have been receive 17.2(a)).	ion No ed in this National Si	tage	
Attachment/s)					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 5/24/04.	3)	Interview Summary Paper No(s)/Mail D  Notice of Informal F  Other:	ate	152)	

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1. Claims 46, 48, and 63 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Firstly, within claim 63, 4,4'-diphenylmethanediisocyanate has been misspelled.

Secondly, within claim 46, the fifth and sixth lines from the end of the claim duplicate the third and fourth lines from the end of the claim.

Thirdly, applicants have claimed that product (A) has less than two secondary amino groups in one molecule; however, this language is ambiguous, because it is unclear if the language requires the presence of any secondary amino groups.

Fourthly, applicants have claimed that product (B) has a content of terminal isocyanate group in an amount of 4% or less by weight; however, this language is ambiguous, because it is unclear if the language requires the presence of any terminal isocyanate groups.

Lastly, since neither compound (a) nor compound (b) is required to have an active hydrogen group (all functional groups may be unsaturated) and since there is no clear requirement that product (A) or product (B) is required to have active hydrogen groups or isocyanate groups, respectively, it is unclear how product (A) and product (B) are to react to form a urethane resin under the these conditions.

2. Claims 46 and 48 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Applicants have failed to provide enablement for processes of forming a urethane resin under conditions when there are no

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active hydrogen groups resulting from the reaction of compound (a) and compound (b) to form product (A). Furthermore, in view of the position taken within paragraph 1, it is unclear how the prepolymer (product (B)) is to react if there are insufficient reactive isocyanate groups.

Any inquiry concerning this communication should be directed to Rabon Sergent at telephone number (571) 272-1079.

RABON SERGENT PRIMARY EXAMINER

R. Sergent

June 26, 2004